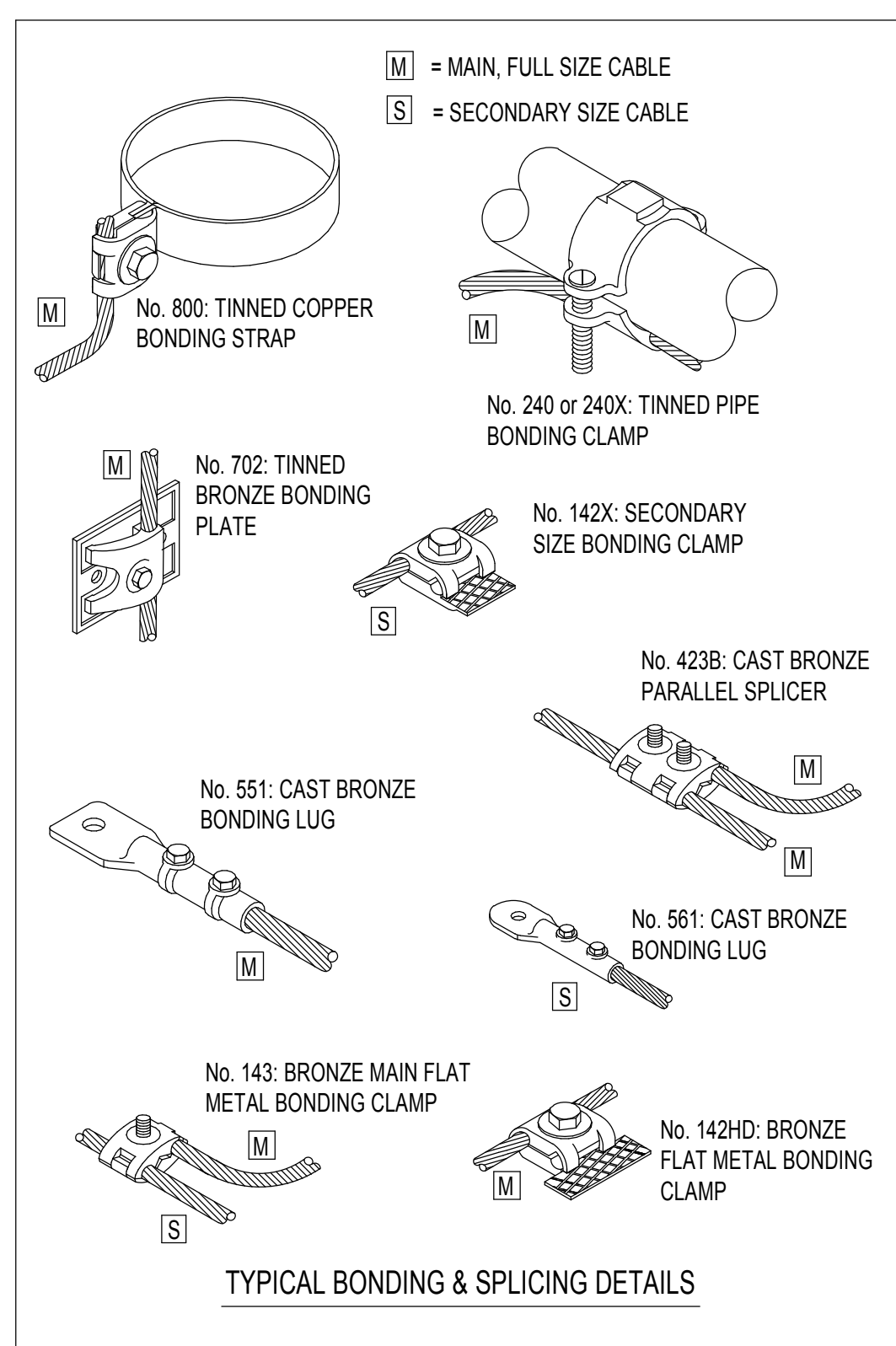
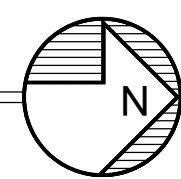


### LIGHTNING PROTECTION PLAN

SCALE: 1/16" = 1'-0"

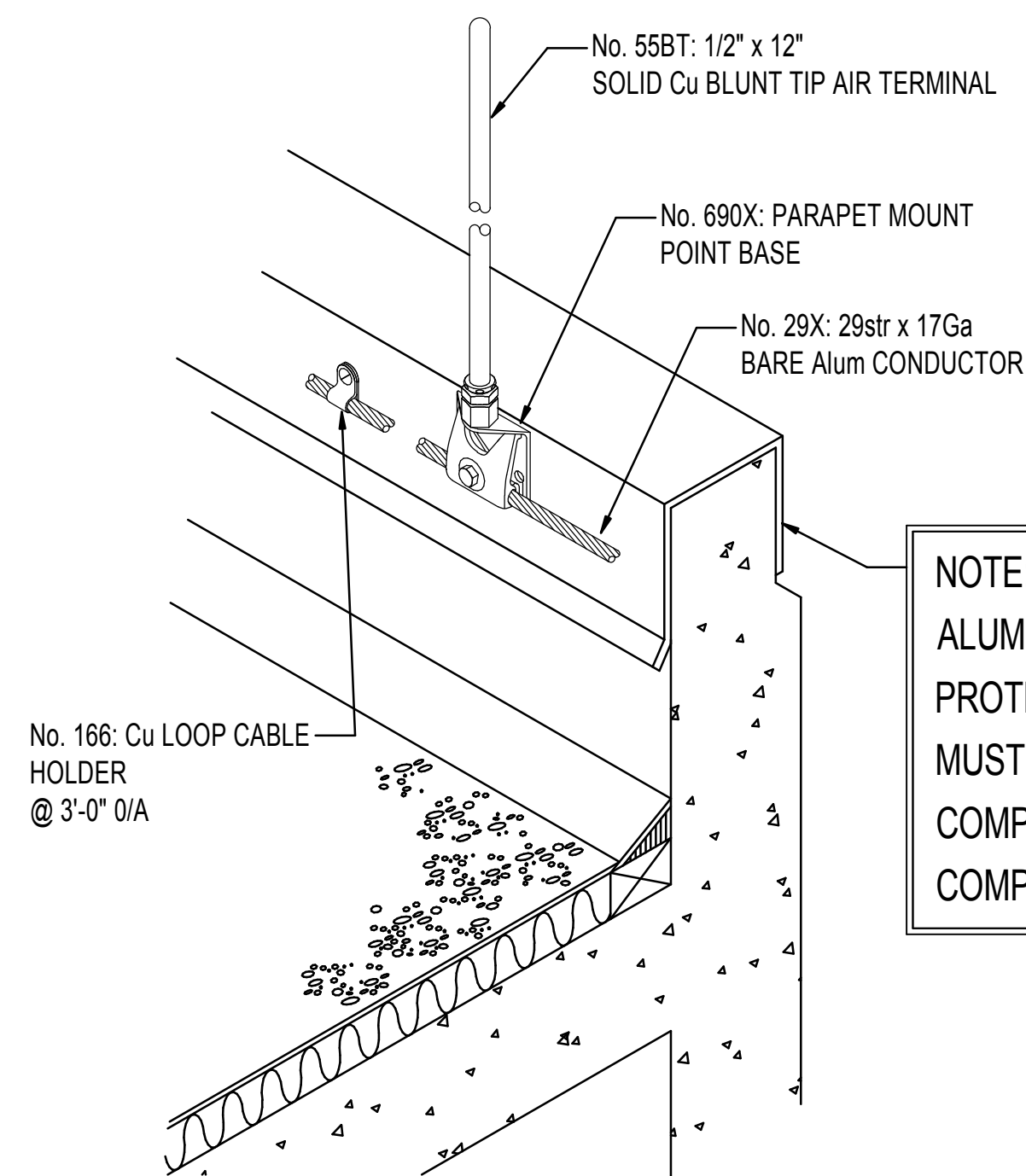
0 16 32



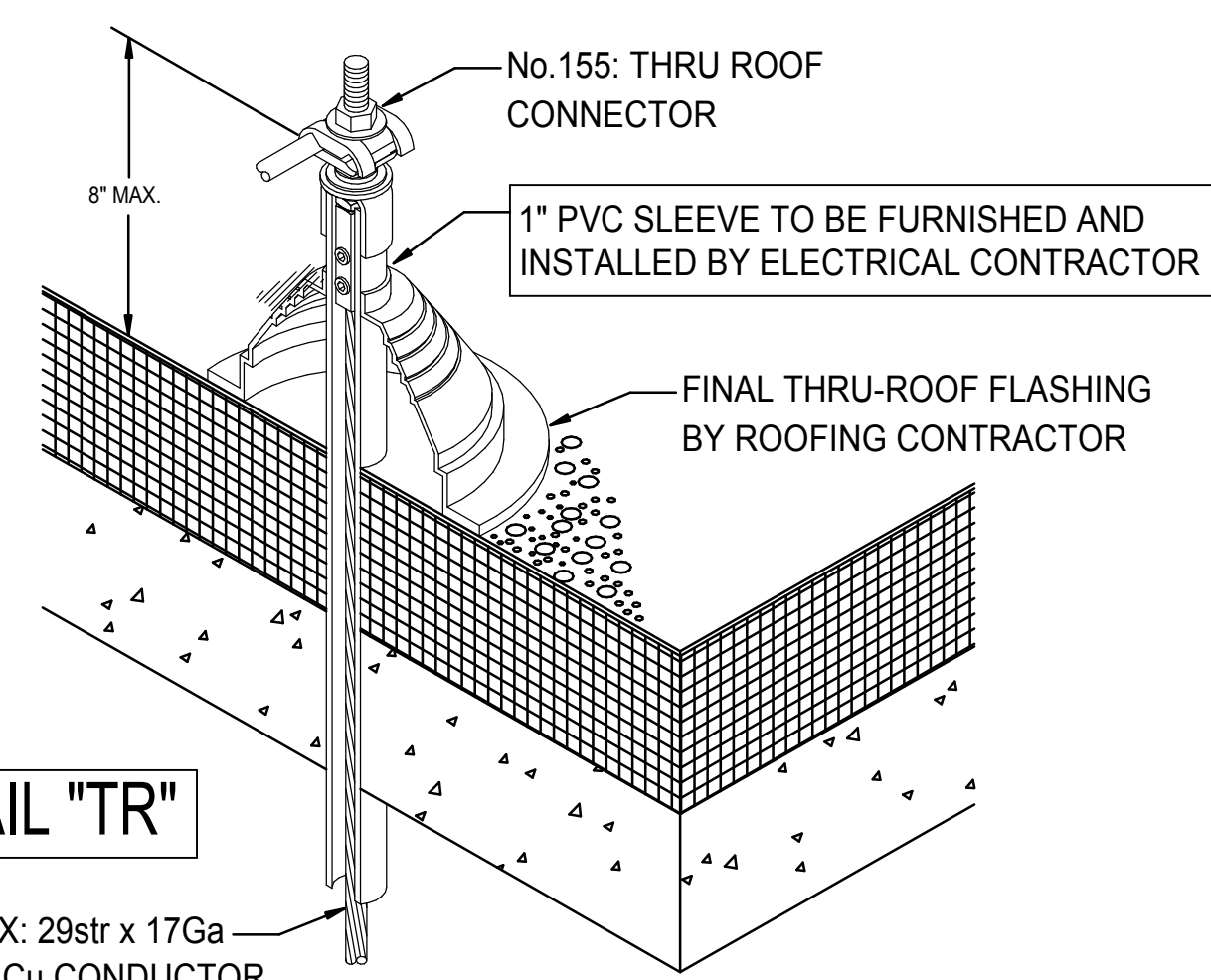
- GENERAL AND INSTALLATION NOTES**
- LOCATE AIR TERMINALS AS SHOWN. TAKE CARE TO INSURE THAT ALL POINTS ARE WITHIN 2'-0" OF OUTSIDE BUILDING EDGE, OUTSIDE CORNERS, AND RIDGE LINE. THAT MAXIMUM SPACING DOES NOT EXCEED 30'-0". AND THAT PROTECTION ABOVE OBJECT PROTECTED IS 10". (POINTS PROJECTING 24" MAY BE SEALED @ 25' MAX.)
  - MAINTAIN HORIZONTAL OR DOWNWARD CURVING OF MAIN CONDUCTOR. INSURE THAT ALL BENDS HAVE AT LEAST AN 8" RADIUS AND DO NOT EXCEED 90°.
  - ATTACH ALL EXPOSED ROOF, DOWN LEAD AND BONDING CABLES AT 3'-0" CENTER MAXIMUM. VERIFY COMPATIBILITY OF ADHESIVE ON MEMBRANE. INDICATE LOCATIONS PRIOR TO INSTALLATION.
  - GROUND ELECTRODES SHALL BE INSTALLED AS SHOWN BUT IN NO INSTANCE SHALL BE LESS THAN 1'-0" BELOW GRADE AND 2'-0" FROM FOUNDATION WALL. BODIES SHALL PENETRATE EARTH AT LEAST 10'-0".
  - BOND TO WATER SERVICE AND OTHER PIPING SYSTEMS AS SHOWN AND AS REQUIRED BY CODES.
  - INTERCONNECT LIGHTNING PROTECTION GROUND TO ELECTRIC, TELEPHONE, CABLE, AND OTHER BUILDING GROUND SYSTEMS AS SHOWN OR AS REQUIRED BY CODE.
  - SYSTEM SHALL BE INSTALLED AS SHOWN TO INSURE PROPER CODE COMPLIANCE. CERTIFICATION, ANY MAJOR VARIANCE SHALL EXIST. APPROVAL.
  - "AS-BUILT" DRAWINGS SHALL BE SUBMITTED IN ACCORDANCE WITH CERTIFICATION PROCEDURES.
  - GROUNDING SYSTEMS ARE UNDER THE DESIGNER'S SUPERVISION AND APPROVED WITH LABELS ON TERMINALS.
  - ALL MATERIALS SHOWN AND INTENDED FOR USE, ARE TO BE AS MANUFACTURED BY BROMPSON LIGHTNING PROTECTION INC., 901 SIBLEY HWY., ST. PAUL, MN 55118. PHONE: 1-800-777-1230 FAX: 651-455-2545

### TYPICAL SYMBOL LEGEND

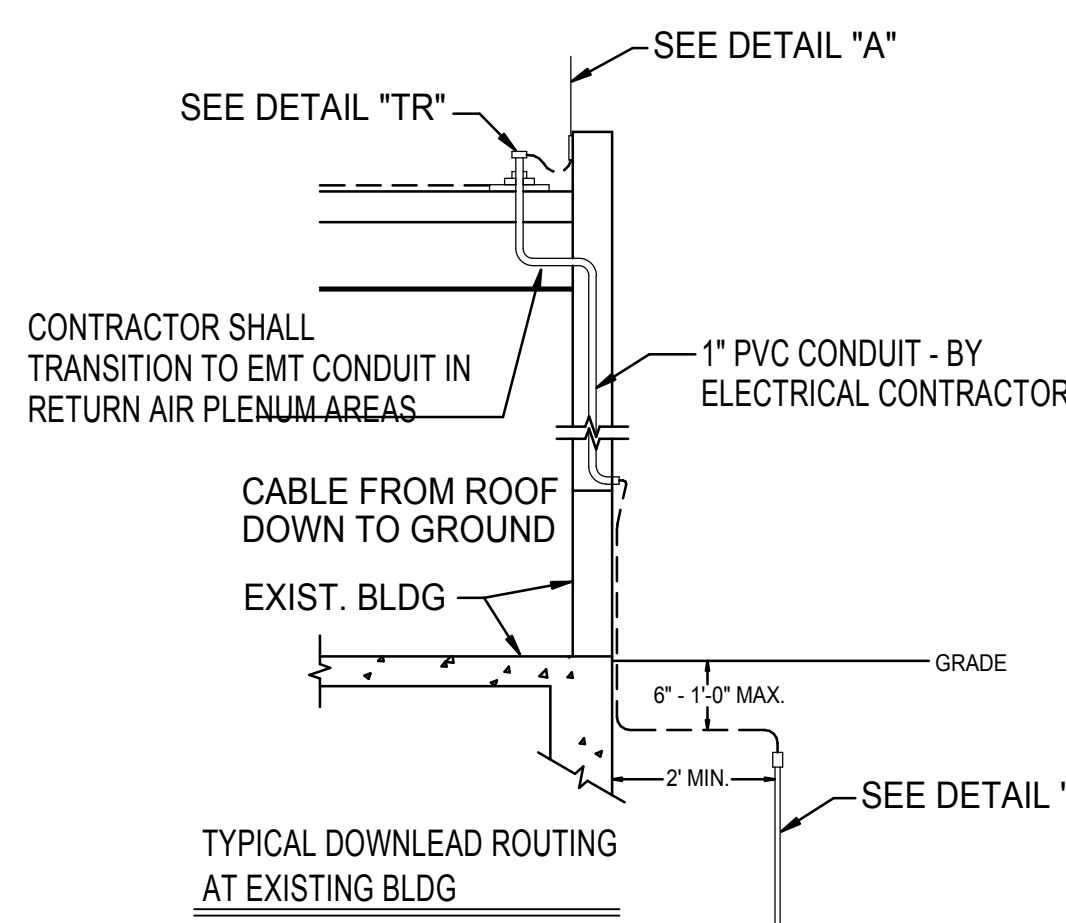
- AIR TERMINAL: LETTER DENOTES DETAIL TYPE
- MAIN CONDUCTOR
- COUNTERPOISE/GROUND CABLE AS/IF APPLICABLE
- THRU ROOF PENETRATION: LETTER DENOTES DETAIL TYPE
- THRU ROOF PENETRATION TO STEEL: LETTER DENOTES DETAIL TYPE
- BONDING CONNECTION: SEE SPECIFIC DETAIL
- CONNECTION TO EXISTING GROUND GRID BY OTHERS
- FULL DOWNLEAD TO GROUND
- STEEL COLUMN BOND TO GROUND
- EXPOSED/PITCHED DOWNLEAD TO GROUND
- ZONE OF PROTECTION



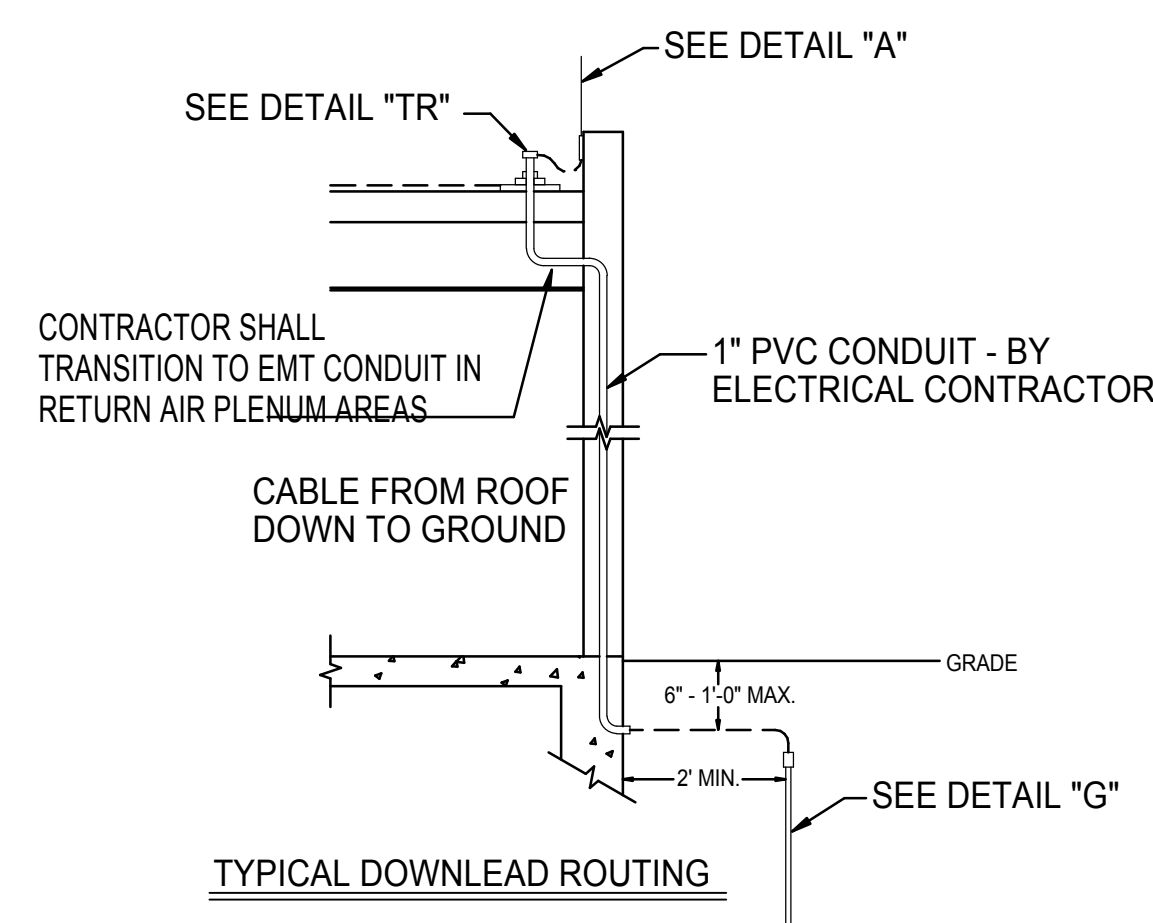
DETAIL "A"



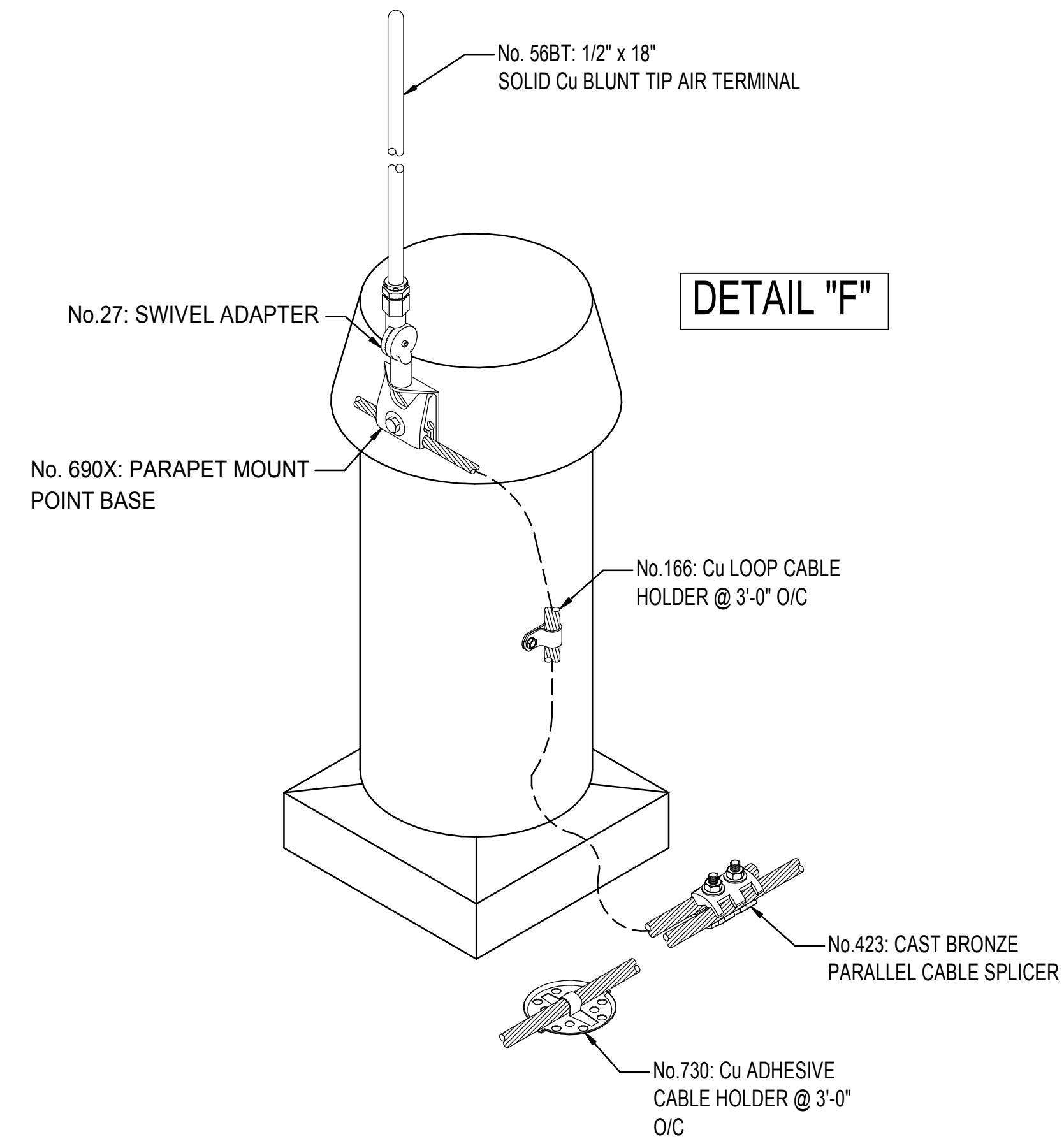
DETAIL "TR"



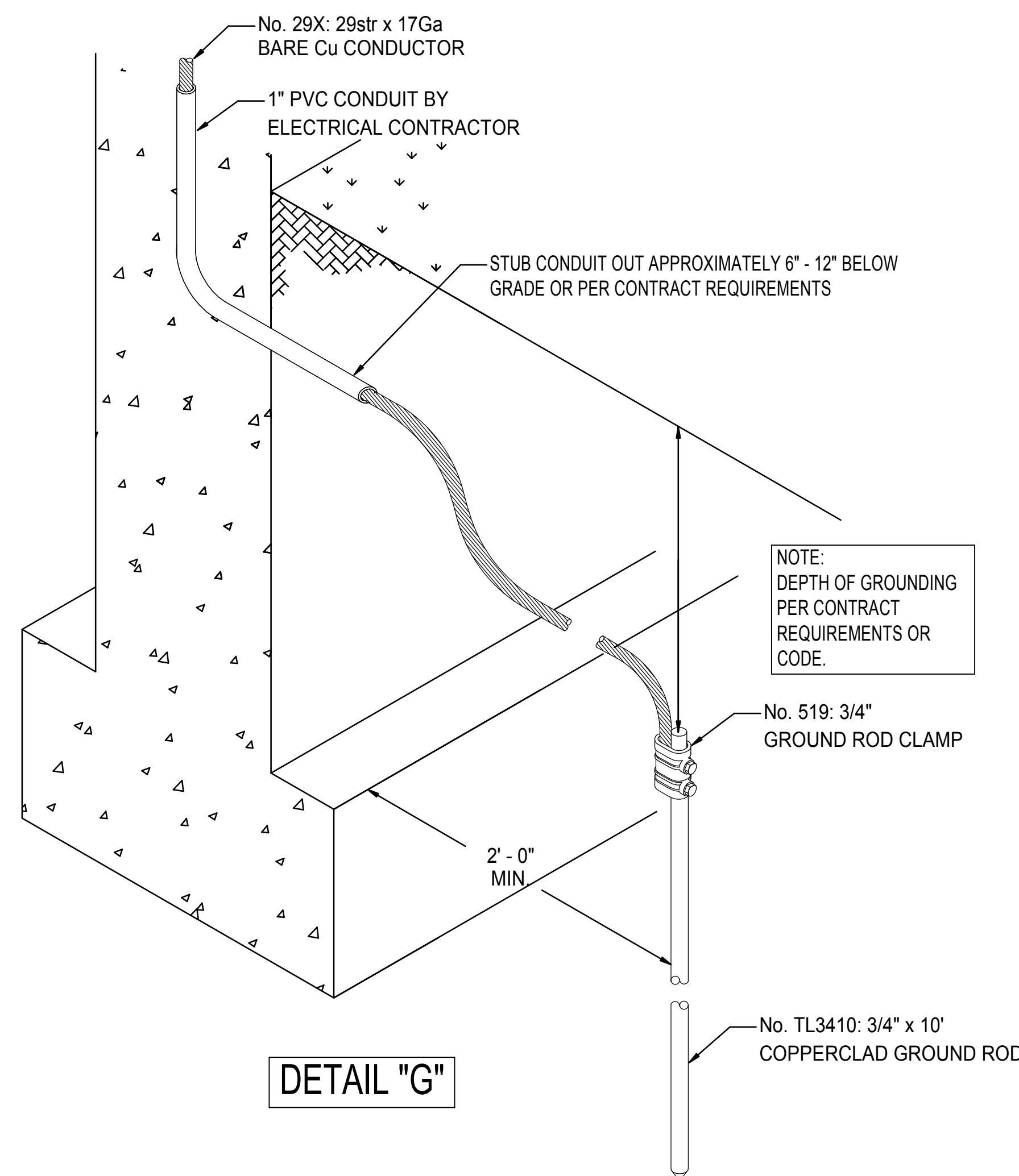
DETAIL "T1"



DETAIL "T"



DETAIL "F"



DETAIL "G"

### ARCHITECTS/ ENGINEERS:

TSP, Inc.  
1112 N. West Ave.  
Sioux Falls, SD 57104  
phone: (605) 336-1160  
fax: (605) 336-7926  
www.teamtsp.com



### Drawing Title

LIGHTNING PROTECTION PLAN

Approved: Project Director

Project Title  
**Sioux Falls VA Health Care System  
Acute Inpatient Medical Unit Addition  
and Renovation**

Location  
VA Medical Center  
2801 W. 22nd Street, PO Box 5046  
Sioux Falls, SD 57117-5046

Date  
08/06/2012

Checked  
MJJ

Drawn  
KAK

Project Number  
04100857  
Building Number  
**5**

Drawing Number  
**5-E-701**  
Dwg. 123 of 123

Office of  
Construction  
and Facilities  
Management

Department of  
Veterans Affairs

FULLY SPRINKLERED  
100% CONSTRUCTION DOCUMENTS